Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.EE/P-YNK/WO/059/2022-23 Date: 09/11/2023

To,

The Executive Engineer,
Byatarayanapura Division,
No.215/20, Defence Colony,
Sahakara Nagar, Bangalore-92

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Sub: Regarding Quality report for the below mentioned work.

Name of work: Package No.07 Consists of 7 Works.

Item No	Description of Work	Unit	Quantity	No of Samples Tested	Standards
1	Providing TMT Steel Reinforcement for RCC work Including Straightening, Cutting, Bending, Hooking, Placing in Positions.	Ton	2.38	1	For each Dia
2	Providing and Laying Reinforced Cement Concrete for Side Drains using M20 Nominal Mix Concrete with OPC@300Kgs with 20mm Down Size.	Cum	44.31	1	Per 50 Cum
3	Providing and Laying Plain Cement Concrete of Mix 1:3:6 (M10) With Crushed 20mm nominal Size Graded Granite.	Cum	33.82	1	Per 100 Cum
4	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite Jelly 20mm & down size.	Sqm	357.72	1	Per 500
5	Providing and fixing RCC Precast cover slab of 250mm thick for Culverts in cement concrete 1:1.5:3 using graded granite Jelly 20mm & down size.	Sqm	80.21	2	Per 50
6	providing and fixing Pre cast solid concrete kerb stones of size 450x200x400 mm made of CC 1:2:4 and finished with CM 1:3 plastering	Nos	314	1	Per 500

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
Ph.:080- 2341 8668, 23511213 Mobile: 94485 15258 E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
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Karnataka Material Test House Pvt. Ltd.,

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

7	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications.	Sqm	161.68	1	Per 500
8	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wetmix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification.	Cum	188.62	1	Per 200
9	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10.	Cum	73.26	1	Per 250
10	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade).	Cum	238.42	2	Per 250

With respect to the above Subject Name of work, we have inspected the work, Quantity and Quality of above mentioned Item of work was found to be satisfactorily completed for the 3rd And Part bill.

Thanking You, With Regards,

Karnataka Material Test House Pvt. Ltd.,

Narayanaswamy.B
Managing Director

Karnataka Material Test House Pvt. Ltd. ★ Bangalore ★

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/8001/2022-23	Date	05.12.2022

TEST REPORT ON CEMENT

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	01.12.2022 - 02.12.2022
Technical Referance	IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 8112-1989

7TH BLOCK HMT LAYOUT			***LAST BUS STOP TO GKVK LAYOUT***	
Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency in %	30.2	Not specified	-
2	Initial setting time in	189.6	Shall not be less than 30 minutes	P
3	Final setting time in minutes	299.8	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) in N/mm2			
a	72+1h (3 days)	28.15	Shall not be less than 23.0 MPa	P
b	168+2h (7 days)	35.86	Shall not be less than 33.0 MPa	P
c	672+4h (28 days)	46.73	Shall not be less than 43.0 MPa	P

** As furnished by the client*

P : Passes IS requirement F: Fails IS requirements

TTC : Test to be conducted

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy.B

.....End of Report.....

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/8003/2022-23	Date	05.12.2022

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	02.12.2022
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016
7TH BLOCK HMT LAYOUT	***LAST BUS STOP TO GKVK LAYOUT***

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	15.4	1.54	1.54	98.46	90 – 100	*90 – 100*	90 – 100	90-100
2.36	36.4	3.64	5.18	94.82	60 – 95	*75 – 100*	85 – 100	95-100
1.18	102.6	10.26	15.44	84.56	30 – 70	*55 – 90*	75 – 100	90-100
0.6	156.4	15.64	31.08	68.92	15 – 34	*35 – 59*	60 – 79	80-100
0.3	326.6	32.66	63.74	36.26	5 – 20	*8 – 30*	12 – 40	15-50
0.15	296.8	29.68	93.42	6.58	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. Bangalore

.....End of Report.....

Approved by
Narayanaswamy.B

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Assistant Executive Engineer
Vidyaranyapura Sub Division
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Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/8005/2022-23	Date	05.12.2022

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	02.12.2022
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016
7TH BLOCK HMT LAYOUT	***LAST BUS STOP TO GKVK LAYOUT***

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Graded size Aggregate of size 20mm.
20	286.4	5.73	5.73	94.27	85-100	90 to 100	
10	2592.4	51.85	57.58	42.42	0 to 20	25 to 55	
4.75	2100.8	42.02	99.59	0.41	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	198.6	3.97	3.97	96.03	85-100	90 to 100	
20	4226.2	84.52	88.50	11.50	0 to 20	30 to 70	
10	462.2	9.24	97.74	2.26	0 to 5	10 to 25	
4.75	112.8	2.26	100.00	0.00	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy.B

.....End of Report.....

ABE (VRP) SD

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/8007/2022-23	Date	24.03.2023

TEST REPORT ON STEEL

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	20.03.2023
Technical Referance	IS: 1786 – 2008 & IS: 1608–2005
6TH BLOCK HMT LAYOUT	***VIDYARANYAPURA BBMP SUBDIVISION OFFICE ROAD***

Tensile Test

Sl No.	Grade of Steel	Dia in	Weight / unit length (kg/m)	0.2% proof Stress (N/mm2)	Tensile Strength (N/mm2)	Percentage Elongation (on 5.65 ÖAG.L)	Remarks
1	Fe-500	8	0.384	576.40	629.60	19.62	Passes
2		10	0.600	583.40	643.70	21.52	Passes
3		12	0.829	572.60	652.80	22.43	Passes

Bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Angle of bend	Observations
1	8	4 dia	180°	No cracks observed. Passes the test.
2	10	4 dia	180°	No cracks observed. Passes the test.
3	12	4 dia	180°	No cracks observed. Passes the test.

Re bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1	8	5 dia	No cracks observed. Passes the test
2	10	5 dia	No cracks observed. Passes the test
3	12	7 dia	No cracks observed. Passes the test.

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. Bangalore

Approved by
Narayanaswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/8008/2022-23	Date	10.04.2023

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Sample Received	31.03.2023
Source of Sample	Supplied by the Client
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification)	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	Drain Side wall (vidyaranyapura BBMP subdivision office Road)	31.03.2023	07.04.2023	7 Days	22500.00	8268	380.6	16.92
2		31.03.2023	07.04.2023		22500.00	8322	386.2	17.16
3		31.03.2023	07.04.2023		22500.00	8426	379.8	16.88

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. Bangalore

Approved by
Narayanaswamy.B

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Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/8009/2022-23	Date	29.04.2023

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore - 92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Sample Received	31.03.2023
Source of Sample	Supplied by the Client
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification)	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	Drain Side wall (vidyaranyapura BBMP subdivision office Road)	31.03.2023	28.04.2023	28 Days	22500.00	8264	624.8	27.77
2		31.03.2023	28.04.2023		22500.00	8264	620.4	27.57
3		31.03.2023	28.04.2023		22500.00	8326	618.2	27.48

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. Bangalore

Approved by
Narayanaswamy.B

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Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/8010/2022-23	Date	26.12.2022

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Sample Received	16.12.2022
Source of Sample	Supplied by the Client
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	Coping Concrete (7th Block HMT Layout / 7th Cross road)	16.12.2022	23.12.2022	7 Days	22500.00	8268	376.4	16.73
2		16.12.2022	23.12.2022		22500.00	8426	382.4	17.00
3		16.12.2022	23.12.2022		22500.00	8328	379.8	16.88

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy.B

.....End of Report.....

Karnataka Material Test House Pvt. Ltd. ★ Bangalore ★

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/8011/2022-23	Date	16.01.2023

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore - 92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Sample Received	16.12.2023
Source of Sample	Supplied by the Client
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	Coping Concrete (7th Block HMT Layout / 7th Cross road)	16.12.2022	13.01.2023	28 Days	22500.00	8226	598.6	26.60
2		16.12.2022	13.01.2023		22500.00	8268	602.4	26.77
3		16.12.2022	13.01.2023		22500.00	8162	588.2	26.14

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt Ltd. Bangalore

Approved by
Narayanaswamy.B

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP Bengaluru

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU-560094
Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCSLAB/8014/2022-23	Date	28.01.2023

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultancy	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Sample Received	23.01.2023
Date of Testing	25.01.2023
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Slabs
Size & Shape of Sample	slab Length -1500mm, Height-230mm,Width460mm
7TH BLOCK HMT LAYOUT	***LAST BUS STOP TO GKVK LAYOUT***

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
230mm Slab														
1	S-01	94.80	188.80	1.99	7055	146.2	20.72	1.00	20.70	25.88	25.4	2.8700	0.00133	2154.73
2	S-02	95.00	189.88	2.00	7085	142.6	20.13	1.00	20.13	25.16		2.8200	0.00135	2096.30
3	S-03	94.60	187.90	1.99	7025	140.8	20.04	1.00	20.01	25.02		2.7900	0.00132	2113.61

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy.B

.....End of Report.....

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Assistant Executive Engineer
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Ph.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
M/s Karnataka Consultancy Services is Sister Concern of KMTHPL

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCSLAB/8015/2022-23	Date	28.01.2023

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Sample Received	23.01.2023
Date of Testing	25.01.2023
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Slabs
Size & Shape of Sample	slab Length -1500mm, Height-230mm,Width460mm
6TH BLOCK BEL LAYOUT	***1st B CROSS ROAD***

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
230mm Slab														
1	S-01	94.80	188.62	1.99	7055	144.6	20.50	1.00	20.47	25.59	25.5	2.8900	0.00133	2171.82
2	S-02	94.68	189.70	2.00	7037	142.6	20.26	1.00	20.27	25.34		2.8400	0.00133	2127.48
3	S-03	95.00	188.40	1.98	7085	145.2	20.50	1.00	20.46	25.57		2.6890	0.00133	2014.62

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy.B

.....End of Report.....

Karnataka Material Test House Pvt Ltd. ★ Bangalore ★

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Assistant Executive Engineer
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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCSLAB/8017/2022-23	Date	29.04.2023

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultancy	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Sample Received	24.04.2023
Date of Testing	27.04.2023
Source of Sample	Supplied by the Client
Size & Shape of Sample	slab Length -920mm, Height-100mm,Width600mm
6TH BLOCK HMT LAYOUT	***VIDYARANYAPURA BBMP SUBDIVISION OFFICE ROAD***

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
100mm Slab														
1	S-01	48.60	99.86	2.05	1854	33.6	18.12	1.01	18.23	22.79	21.7	0.6200	0.00019	3348.56
2	S-02	49.86	98.76	1.98	1952	34.2	17.52	1.00	17.49	21.86		0.6700	0.00019	3476.32
3	S-03	50.40	98.82	1.96	1994	32.8	16.45	1.00	16.38	20.47		0.6800	0.00020	3450.91

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. * Bangalore *

Approved by
Narayanaswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCKerbs/8017/2022-23	Date	29.04.2023

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Sample Received	24.04.2023
Date of Testing	27.04.2023
Source of Sample	Supplied by the Client
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
6TH BLOCK HMT LAYOUT	***VIDYARANYAPURA BBMP SUBDIVISION OFFICE ROAD***

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	94.88	187.60	1.98	7067	135.6	19.19	1.00	19.14	23.93		2.6300	0.00133	1983.83
2	S-02	94.96	189.20	1.99	7079	136.4	19.27	1.00	19.25	24.07	23.9	2.6820	0.00134	2002.56
3	S-03	94.80	188.80	1.99	7055	134.2	19.02	1.00	19.00	23.76		2.6320	0.00133	1976.05

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Solid Block/8018/2022-23	Date	06.02.2023

TEST RESULTS ON SOLID BLOCKS

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore -92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	04.02.2023
Source of Sample	Supplied by the Client
Size & Shape of Sample	6" SOLID BLOCKS
Technical Referance	IS : 2185 (Part I) - 2005
7TH BLOCK HMT LAYOUT	***7TH CROSS ROAD***

COMPRESSIVE STRENGTH

Sl No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Dry Weight of sample in gm	Max. Failure Load in KN	Ind. Compressive Strength N/mm2	Average Compressive Strength- N/mm2
		L	B	H					
6" Block									
1	Sample-01	399.98	198.60	149.89	59953.00	25264.00	317.12	5.29	5.29
2	Sample-02	398.80	199.86	150.00	59820.00	25634.00	314.40	5.26	5.26
3	Sample-03	400.00	200.00	149.99	59996.00	24986.00	312.40	5.21	5.21

**As furnished by the client*

Remarks ***Above Sample confirms to the requirements of IS-2185 (Part-1) 2005 Table 2.0, Clause 5.1, 5.2 & 9.4) Page No-4***
Passes the test

For **Karnataka Material Test House Pvt Ltd.,**

Checked & Prepared by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. ★ Bangalore ★

Approved by
Narayanaswamy.B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/8019/2022-23	Date	23.02.2023

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	21.02.2023
Source of Sample	Supplied by the Client
Technical Referance	MORTH Specifications
DEFENCE LAYOUT	***8TH ROAD***
WMM MATERIAL	***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	296.8	296.8	2.97	97.03	95-100
22.4	2489.2	2786	27.86	72.14	60-80
11.2	2058.4	4844.4	48.44	51.56	40-60
4.75	1320.4	6164.8	61.65	38.35	25-40
2.36	1552.4	7717.2	77.17	22.83	15-30
0.6	771.4	8488.6	84.89	15.11	8--22
0.75	1125.2	9613.8	96.14	3.86	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	1.02	Should not be more than 2%
2	Flakiness & Elongation Index	22.2%	Shall not be more than 40%
3	Aggregate Crushing Value	19.6%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Karnataka Material Test House Pvt. Ltd. Bangalore

Prepared & Checked by
Nagaraj K S

Approved by
Narayanaswamy.B

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Assistant Executive Engineer
Vidyaranyapura Sub Divisio
B.B.M.P, Bangalore - 97

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/8022/2022-23	Date	28.02.2023

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara , Bangalore - 92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	27.02.2023
Source of Sample	Supplied by the Client
Technical Referance	MORTH SPECIFICATIONS
DEFENCE LAYOUT	***8TH ROAD***

DGBM MATERIAL	***Weight of sample taken***	***1000***	***gm***	***GRADE-II***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	61.8	61.8	6.18	93.82	90-100
19	235.2	297	29.70	70.30	71-95
13.2	165.4	462.4	46.24	53.76	56-80
4.75	120.4	582.8	58.28	41.72	38-54
2.36	119.6	702.4	70.24	29.76	28-42
0.3	145.2	847.6	84.76	15.24	7--21
0.075	112.2	959.8	95.98	4.02	2--8

Percentage of Bitumen

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	521.2	490.2	31.00	5.95
2	519.4	489.6	29.80	5.74
3	516.4	489.4	27.00	5.23

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. Bangalore

Approved by
Narayanaswamy.B

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AB-09

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/8020/2022-23	Date	08.03.2023

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Byatarayanapura Division, No2152/20,Defence Colony , Sahakara Nagara, Bangalore - 92
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	06.03.2023
Source of Sample	Supplied by the Client
Technical Referance	MORTH SPECIFICATIONS
DEFENCE LAYOUT	***8TH ROAD***

BC MATERIAL	***Weight of sample taken***	***1000***	***gm***	***GRADE-II***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	41.8	41.8	4.18	95.82	90-100
9.5	233.4	275.2	27.52	72.48	70-88
4.75	143.6	418.8	41.88	58.12	53-71
2.36	99.8	518.6	51.86	48.14	42-58
1.18	73.4	592	59.20	40.80	34-48
0.6	82.4	674.4	67.44	32.56	26-38
0.3	79.6	754	75.40	24.60	18-28
0.15	87.4	841.4	84.14	15.86	12--20
0.075	99.2	940.6	94.06	5.94	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	520.2	489.4	30.80	5.92
2	517.4	486.2	31.20	6.03
3	516.2	485.2	31.00	6.01

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. Bangalore

Approved by
Narayanaswamy.B

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Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing, Topo Survey & Project Management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/8021/2022-23	Date	17.04.2023

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri K lakhsminarayana Reddy, No. 1,15th Cross,Kanakanagar,R T Nagar Post Bengaluru-560032.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Package-7 Consists of 7 Works
Work Order No	BBMP/EE/BTP/WO/77/2022-23
Job Code No	009-23-000004
Date of Testing	15.04.2023
Source of Sample	Supplied by the Client
Technical Referance	MORTH SPECIFICATIONS

7TH BLOCK HMT LAYOUT ***8TH CROSS ROAD***

BC MATERIAL ***Weight of sample taken*** ***1000*** ***gm*** ***GRADE-II***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	42.6	42.6	4.26	95.74	90-100
9.5	250.2	292.8	29.28	70.72	70-88
4.75	139.2	432	43.20	56.80	53-71
2.36	101.2	533.2	53.32	46.68	42-58
1.18	76.4	609.6	60.96	39.04	34-48
0.6	80.2	689.8	68.98	31.02	26-38
0.3	82.6	772.4	77.24	22.76	18-28
0.15	75.6	848	84.80	15.20	12--20
0.075	100.2	948.2	94.82	5.18	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	500.0	469.4	30.60	6.12
2	500.0	470.2	29.80	5.96
3	502.0	471.4	30.60	6.10

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Karnataka Material Test House Pvt. Ltd. ★ Bangalore ★

Approved by
Narayanaswamy.B

Note: 1)This reports is not to be reproduced except in full without our prior permission in writiing.

2)The results listed refer only to the tested samples nd applicable parameters.

3)Any correction in the report will be invalid.

AB-04

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